

**JOYGLOBAL**

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# Face Drilling Jumbos

## Product Overview





# Face Drilling Jumbos

Joy Global delivers a full line of heavy duty development and production drilling jumbos for mining and tunneling. Combined with Montabert HC series drifters, the Joy NV-1, Vein Runner II, Drift Runner and Ramp Runner jumbo drills continue to lead the industry in reliability and performance. Optional ROPS/FOPS certified environmentally controlled cabs allow the operator to be more comfortable, productive and secure from all forms of hazards. EPA and MSHA certified engines are available on all Joy hydraulic jumbo drills, demonstrating our commitment to a cleaner, safer environment. The Joy Global jumbo line is designed to operate in the harshest conditions of underground mining and can drill horizontal, vertical or cross-cut holes. Designed for operator comfort, these units can accommodate all different ground conditions.



Vein Runner II



Joy NV-1 Jumbo

A long list of innovative features sets Joy jumbo drills apart from the rest.

At Joy Global, everything starts with a **singular focus** on mining.

Our unique business model in the mining industry, centered on a **direct service** approach, allows our customers to deal directly with our company representatives, in an intimacy model with no middleman or dealership operations intermediating discussions.

Our **experienced people** and high quality services are close to the mines to provide better decisions and solutions.

Joy Global is continually investing in research and development in order to deliver **technology** products that will revolutionize mining.

Our resources are committed to developing methods and solutions focused on higher productivity and reliability and safer operations.

• **Montabert HC Series Drifter & Intelsense Drilling Control System**

The Montabert HC series drifter and Intelsense drilling control system work seamlessly with all Joy jumbos, ensuring the best possible drilling performance.

• **Powertrain & Hydraulics**

In an effort to improve underground air quality, Joy jumbos are available with EPA and MSHA certified engines. A heavy-duty all-mechanical powertrain with load-sensing hydraulics ensures a proven platform and a long service life.

• **Environment Controlled ROPS/FOPS Certified Cabs (Optional)**

The ROPS/FOPS certified environmentally controlled operator's cab insulates the operator from noise, dust and vibration.

• **Lightweight Aluminum JGF Feed with Replaceable Wear Strips**

The Joy Global Feed (JGF) is a lightweight aluminum extrusion using a hydraulic cylinder cable feed design. JGF feeds are operator and mechanic friendly. The JGF feed comes in different lengths to accommodate a range of steel from 8 ft (2.4 m) to 16 ft (4.87 m) and features replaceable wear rails and guides. Used with either the SB, MB, LB, or JGB series booms, the JGF feed is designed for fast accurate holes.

• **Booms**

Designed for harsh underground environments, these booms come with an automatic parallelism feature that is designed into the hydraulic system of the booms.



Ramp Runner 1 MB Jumbo



Ramp Runner 2 MB Jumbo



Drift Runner 1 SB Jumbo



Drift Runner 2 SB Jumbo

# Drift Runner 1 SB Jumbo

The Joy Drift Runner series single-boom hydraulic rig is designed for drilling vertical, horizontal and angled holes in underground production or development headings. It features one hydraulic percussion drifter designed to drive headings 5.46 m by 5.46 m (17 feet 11 inches by 17 feet 11 inches).

## Standard Features

- Montabert HC 50 percussion drifter
- Montabert Intelsense drilling control
- JGF Feed c/w replaceable wear strips
- Dana R20000 transmission c/w torque converter
- EPA & MSHA certified engines
- 45 kW (60 hp) electric motor driving pumps for percussion/rotation
- Direct lever controls
- Boom parallelism

## Options

- Montabert HC 109 drifter (56 kW / 75 hp electric motor)
- Montabert HC 110 drifter (74.5 kW / 100 hp electric motor)
- Optional feed lengths
- ROPS/FOPS cab with climate control
- Telescopic ROPS/FOPS canopy
- Automatic lubrication system
- Engine options
- Fire suppression system
- Tire options
- Air compressor
- Water booster

# Drift Runner 2 SB Jumbo

The Joy Drift Runner series two-boom jumbo is designed for drilling vertical, horizontal and cross-cut holes in underground production and development headings. It features two hydraulic percussion drifters designed to drive headings 5.49 m by 7.04 m (18 feet by 23 feet 1 inch).

## Standard Features

- Montabert HC 50 percussion drifters
- Montabert Intelsense drilling controls
- JGF feed c/w replaceable wear strips
- Dana R20000 series transmission c/w torque converter
- EPA & MSHA certified engines
- 45 kW (60 hp) electric motors driving pumps for percussion, rotation & high pressure
- Direct lever controls
- Boom parallelism

## Options

- Montabert HC 109 drifter (56 kW / 75 hp electric motor)
- Montabert HC 110 drifter (74.5 kW / 100 hp electric motor)
- Optional feed lengths
- ROPS/FOPS cab with climate control
- Telescopic ROPS/FOPS canopy
- Automatic lubrication system
- Engine options
- Fire suppression system
- Tire options
- Air compressor
- Water booster

## General Specifications

	DR-1 SB Jumbo		DR-2 SB Jumbo	
Weight	14,880 kg	32,800 lbs	18,370 kg	40,500 lbs
Maximum Width	2.06 m	6 ft 9 in	2.08 m	6 ft 10 in
Turning Radius				
Inside	4.19 m	13 ft 9 in	3.76 m	12 ft 4 in
Outside	6.48 m	21 ft 3	6.68 m	21 ft 11 in
Turning Angle	38°		38°	
Boom Guide Rollover	360°		360°	
Boom Extension	914 mm	36 in	914 mm	36 in
Feed Extension	1.52 m	60 in	1.52 m	60 in
Boom Coverage				
Height	5.46 m	17 ft 11 in	5.49 m	18 ft 0 in
Width	5.46 m	17 ft 11 in	7.04 m	23 ft 1 in
Drifter	Montabert HC 50		Montabert HC 50 (2%)	
Tires	12.00 x 20		12.00 x 20	
Cable Reel - Type G-GC	76.2 m	250 ft	76.2 m	250 ft

# Ramp Runner 1 MB Jumbo

The Joy Ramp Runner series one-boom hydraulic rig is designed for drilling vertical, horizontal and cross-cut holes in underground production and development headings. It features one hydraulic percussion drifter designed to drive headings 6.07 m by 5.69 m (19 feet 11 inches by 18 feet 8 inches).

## Standard Features

- Montabert HC 50 percussion drifter
- Montabert Intelsense drilling controls
- JGF feed c/w replaceable wear strips
- Dana R20000 series transmission c/w torque converter
- EPA and MSHA certified engine
- 45 kW (60 HP) electric motor driving pumps for percussion, rotation & high pressure
- Direct lever controls
- Boom parallelism

## Options

- Montabert HC 109 drifter (56 kW / 75 hp electric motor)
- Montabert HC 110 drifter (74.5 kW / 100 hp electric motor)
- Optional feed lengths
- ROPS/FOPS cab with climate control
- Telescopic ROPS/FOPS canopy
- Automatic lubrication system
- Engine options
- Fire suppression system
- Tire options
- Air compressor
- Water booster

# Ramp Runner 2 MB Jumbo

The Joy Ramp Runner series two-boom hydraulic rig is designed for drilling vertical, horizontal and cross-cut holes in underground production and development headings. It features two hydraulic percussion drifters designed to drive headings 6.07 m by 8.28 m (19 feet 11 inches by 27 feet 2 inches).

## Standard Features

- Montabert HC 50 percussion drifters
- Montabert Intelsense drilling controls
- JGF feed c/w replaceable wear strips
- Dana R20000 transmission c/w torque converter
- EPA and MSHA certified engines
- 45 kW (60 hp) electric motors driving pumps for percussion, rotation & high pressure
- Direct lever controls
- Boom parallelism

## Options

- Montabert HC 109 drifter (56 kW / 75 hp electric motor)
- Montabert HC 110 drifter (74.5 kW / 100 hp electric motor)
- Optional feed lengths
- ROPS/FOPS cab with climate control
- Telescopic ROPS/FOPS canopy
- Automatic lubrication system
- Engine options
- Fire suppression system
- Tire options
- Air compressor
- Water booster

## General Specifications

	RR-1 MB Jumbo		RR-2 MBJumbo	
Weight	16,545 kg	36,400 lbs	19,780 kg	43,600 lbs
Maximum Width	2.06 m	6 ft 9 in	2.16 m	7 ft 1 in
Turning Radius				
Inside	4.19 m	13 ft 9 in	3.76 m	12 ft 4 in
Outside	6.48 m	21 ft 3 in	6.68 m	21 ft 11 in
Turning Angle	38°		38°	
Boom Guide Rollover	360°		360°	
Boom Extension	1219 mm	48 in	1217 mm	48 in
Feed Extension	1524 mm	60 in	1524 mm	60 in
Boom Coverage				
Height	6.07 m	19 ft 11 in	6.07 m	19 ft 11 in
Width	5.69 m	18 ft 8 in	8.28 m	27 ft 2 in
Drifter	Montabert HC 50		Montabert HC 50 (2)	
Tires	12.00 x 20		12.00 x 20	
Cable Reel - Type G-GC	76.2 m	250 ft	76.2 m	250 ft

# Vein Runner II Hydraulic Drill Jumbo

The Joy Vein Runner series single-boom hydraulic rig is designed for drilling vertical, horizontal and angled holes in underground production or development headings. It features a hydraulic percussion drifter designed to drive headings 5.77 m by 5.1 m (18 feet 11 inches by 16 feet 9 inches).

## Standard Features

- Heavy duty all mechanical powertrain
- Montabert HC 50 percussion drifter
- JGB series boom
- Montabert Intelsense drilling control
- Lightweight aluminum JGF feed
- Dana R20000 transmission with torque converter
- EPA & MSHA certified engines
- 45 kW (60 hp) electric motor driving pumps for percussion/rotation
- Direct lever controls
- Boom parallelism

## Options

- Montabert HC 109 percussion drifter
- Montabert HC 110 percussion drifter
- Optional feed lengths
- ROPS/FOPS cab with climate control
- Telescopic ROPS/FOPS canopy
- Diesel Drilling
- Engine options
- Fire suppression system
- Large protective operators compartment
- Rail mounted
- Air compressor
- Water booster

# NV-1 Hydraulic Drill Jumbo

The Joy NV-1 series single-boom hydraulic rig is designed for narrow vein drilling, from vertical to horizontal and angled holes in underground production or development headings. It features one hydraulic percussion drifter designed to drive headings 3 m by 3 m (10 feet by 10 feet).

## Standard Features

- Hydrostatic drive & carrier
- Montabert HC 20 percussion drifter
- JGB series boom
- Montabert Intelsense drilling control
- Lightweight aluminum JGF feed
- EPA certified engines
- 45 kW (60 hp) electric motor driving pumps for percussion/rotation
- Direct lever controls
- Boom parallelism

## Options

- Montabert HC 25 percussion drifter
- Montabert HC 50 percussion drifter
- Optional feed lengths
- ROPS/FOPS cab with climate control
- Telescopic ROPS/FOPS canopy
- Fire suppression system
- Air compressor
- Water booster

## General Specifications

	Vein Runner II Jumbo		NV-1 Jumbo	
Weight	10,955 kg	24,100 lbs	9,091 kg	20,000 lbs
Maximum Width	1.42 m	4 ft 8 in	1067 mm	3 ft 6 in
Turning Radius				
Inside	3.05 m	10 ft	2.61 m	8 ft 7 in
Outside	5.08 m	16 ft 8 in	4.43 m	14 ft 6 in
Turning Angle	40°		40°	
Boom Guide Rollover	360°		360°	
Boom Extension	914 mm	36 in	914 mm	36 in
Feed Extension	1219 mm	48 in	914 mm	36 in
Boom Coverage				
Height	5.1 m	16 ft 9 in	3 m	10 ft
Width	5.77 m	18 ft 11 in	3 m	10 ft
Drifter	Montabert HC 50		Montabert HC 20	
Tires	10.00 x 20		8.25 x 15	
Cable Reel - Type G-GC	76.2 m	250 ft	76.2 m	250 ft

Contact your Joy Global service representative for more information on face drilling jumbos or visit [www.joyglobal.com](http://www.joyglobal.com)

## Montabert Drifters

Joy Global offers Montabert HC 20, HC 25, HC 50, HC 109 and HC 110 drifters on all Joy hydraulic drill jumbos. Combined with Intelsense drilling controls, Joy jumbos have the highest availability and the fastest drilling rates in the industry.

The workhorse of any drill rig is the drifter. The Montabert HC series can provide our customers the lowest cost for drilling maintenance and consumables.

Joy Global also offers drifter conversion program to retrofit Montabert drifters on other manufacturer's units.

## Montabert Drifter Range

	HC 20	HC 25	HC 50	HC 109	HC 110
Weight kg (lbs)	62-71 (137-157)	71 (157)	102 (225)	142 (313) 170 (375)	200 (441) 229 (505)
Piston Weight daN	1.9	2	3.4	6.3	6.3
Percussion Output Power kW	5	9	13	18	33
Percussion Flow/Press L/mn (bar)	45 (140)	65 (150)	105 (130)	135 (135)	135 (225) 125 (230) 170 (190)
Applications	Surface drilling	Mining, bolting	Mining, bolting	Mining, bolting, long holes	Mining, bolting, long holes



Joy Global worldwide locations

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